Google Scholar BETA

Web Images Video News Maps more »

led "fingerprint scanner" Search

Advanced Scholar Search
Scholar Preferences
Scholar Help

Scholar **All articles** Recent articles Results **1** - **10** of about **344** for **led** "**fingerprint scanner**". (**0.15** second

All Results
L Prikockis
G Fishbine
R Withoff
T Klein
A Do

Portable fingerprint scanning apparatus for identification verification - all 5 versions »
GM Fishbine, RJ Withoff, TD Klein - US Patent 5,467,403, 1995 - Google Patents
... The apparatus of the present invention includes a **fingerprint scanner** for capturing a fingerprint image, a camera ... These and otherproblems **led** to "live scanning ...
Cited by 112 - Related Articles - Web Search

Anti-fraud biometric scanner that accurately detects blood flow - all 2 versions »
PD Lapsley, JA Lee, DF Pare Jr, N Hoffman - US Patent 5,737,439, 1998 - Google Patents
... 307 ofthe **fingerprint scanner** is attached to an illuminâtesthe objectviathefinge rprintimagerlightsource, enclosure 308 that secures the first **LED** 302 and ...
Cited by 22 - Related Articles - Web Search

Biometrical fingerprint recognition: don't get your fingers burned - all 7 versions »
T van der Putte, J Keuning - Proc. 4th Smart Card Research and Advanced Applications ... - keuning.com
... left the fingerprints is not co-operating by placing his finger on a **fingerprint scanner**. ... is placed or pushed on a plate and illuminated by a **LED** light source. ...
Cited by 48 - Related Articles - View as HTML - Web Search

Automated fingerprint identification system - all 2 versions »
DL Meadows, AJ Pouratian - US Patent 5,869,822, 1999 - Google Patents
... a person wants to use the card (12), the card (12) is inserted into a card reader (22) and the person's finger is scanned by a **fingerprint scanner** (24) which ...
Cited by 28 - Related Articles - Web Search

A User Interface Using Fingerprint Recognition: Holding Commands and Data Objects on Fingers - all 7 versions »
A Sugiura, Y Koseki - Proceedings of the 11th annual ACM symposium on User ..., 1998 - inf.ufsc.br
... CCD camera captures a fingerprint image illuminated by the **LED** light source ... Actually, the current average thickness of the optical-type **fingerprint scanner** is 3 ...
Cited by 9 - Related Articles - View as HTML - Web Search

Recent Advances in Fingerprint Verification - all 9 versions »
AK Jain, S Pankanti, S Prabhakar, A Ross - Invited Paper for 3rd Int. Conference on Audio- and Video- ..., 2001 - Springer
... These efforts have **led** to development of automatic/semi-automatic fingerprint identification systems (AFIS) over the past few ... 31. Fidelica **Fingerprint Scanner**. ...
Cited by 12 - Related Articles - Web Search - BL Direct

Biometric authentication - all 4 versions »
AC Weaver - Computer, 2006 - doi.ieeecomputersociety.org
... Figure 2. Digital Persona U.are.U Pro **fingerprint scanner**. ... Using an iris scanner requires aligning the eye with a colored **LED** inside the camera, then moving ...

Cited by 3 - Related Articles - Web Search - BL Direct

Access control unit interface - all 4 versions »
WG Scott, D Brunell, M Kahn, GW McClurg... - US Patent 6,272,562, 2001 - Google Patents
... A daughter card is coupled between the **fingerprint scanner**, various access control ... interface module, a finger detect interface module, a **LED** interface module ...
Cited by 8 - Related Articles - Web Search

Code reader **fingerprint scanner** - all 3 versions »
WG Scott, JE Davis... - US Patent 6,263,090, 2001 - Google Patents
... a housing 1 with an upper surface 20 having the **fingerprint scanner** plate 2. The finger is placed on the scanner plate 2 and illuminated by an **LED** 16 light ...
Cited by 1 - Related Articles - Web Search

Fingerprint verification using coincident sequencing and thinning
CA Gunawardena, VK Sagar - Industrial Electronics, Control and Instrumentation, 1991. ... - ieeexplore.ieee.org
... In developing the **fingerprint scanner** several methods of detection were examined. ... a problem in pattern recognition, the research carried out has **led** to the ...
Cited by 3 - Related Articles - Web Search

Goooooooooogle ▶
Result Page: 1 2 3 4 5 6 7 8 9 10 **Next**

led "fingerprint scanner" Search

Google Home - About Google - About Google Scholar

Search Results

Results for "((biometric)<in>metadata)"
Your search matched **1454** of **1566306** documents.
A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

e-mail

» Search Options

View Session History

New Search

Modify Search

((biometric)<in>metadata) Search

Check to search only within this results set

Display Format: Citation Citation & Abstract

» Key

IEEE JNL	IEEE Journal or Magazine
IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

view selected items Select All Deselect All View: **1-25** | 26-5

1. **Generating Cancelable Fingerprint Templates**
Nalini K. Ratha; Sharat Chikkerur; Jonathan H. Connell; Ruud M. Bolle;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
Volume 29, Issue 4, April 2007 Page(s):561 - 572
Digital Object Identifier 10.1109/TPAMI.2007.1004
AbstractPlus | Full Text: PDF(3480 KB) IEEE JNL
Rights and Permissions

2. **Spatial frequency domain image processing for biometric recognition**
Vijaya Kumar, B.V.K.; Savvides, M.; Venkataramani, K.; Chunyan Xie;
Image Processing, 2002. Proceedings. 2002 International Conference on
Volume 1, 22-25 Sept. 2002 Page(s):I-53 - I-56 vol.1
Digital Object Identifier 10.1109/ICIP.2002.1037957
AbstractPlus | Full Text: PDF(359 KB) IEEE CNF
Rights and Permissions

3. **Biometric cryptosystems: issues and challenges**
Uludag, U.; Pankanti, S.; Prabhakar, S.; Jain, A.K.;
Proceedings of the IEEE
Volume 92, Issue 6, June 2004 Page(s):948 - 960
Digital Object Identifier 10.1109/JPROC.2004.827372
AbstractPlus | Full Text: PDF(512 KB) | Full Text: HTML IEEE JNL
Rights and Permissions

4. **Graphics and security: exploring visual biometrics**
Kroeker, K.L.;
Computer Graphics and Applications, IEEE
Volume 22, Issue 4, July-Aug. 2002 Page(s):16 - 21
Digital Object Identifier 10.1109/MCG.2002.1016693
AbstractPlus | References | Full Text: PDF(5123 KB) IEEE JNL
Rights and Permissions

5. **Workload characterization of biometric applications on Pentium 4 microa**
Chang-Burm Cho; Chande, A.V.; Yue Li; Tao Li;
Workload Characterization Symposium, 2005. Proceedings of the IEEE Interna
6-8 Oct. 2005 Page(s):76 - 86
Digital Object Identifier 10.1109/IISWC.2005.1526003

AbstractPlus | Full Text: PDF(468 KB) IEEE CNF
Rights and Permissions

6. **Trends of Biometric and Test Techniques of K-NBTC**
Dae Cheol Shin; Jason Kim Director; Bongnam noh;
Advanced Communication Technology, The 9th International Conference on
Volume 1, Feb. 2007 Page(s):141 - 146
Digital Object Identifier 10.1109/ICACT.2007.358324
AbstractPlus | Full Text: PDF(7833 KB) IEEE CNF
Rights and Permissions

7. **Validating a Biometric Authentication System: Sample Size Requirements**
Dass, S.C.; Yongfang Zhu; Jain, A.K.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
Volume 28, Issue 12, Dec. 2006 Page(s):1902 - 1319
Digital Object Identifier 10.1109/TPAMI.2006.255
AbstractPlus | Full Text: PDF(1766 KB) IEEE JNL
Rights and Permissions

8. **Synthetic Biometrics: A Survey**
Yanushkevich, S.N.;
Neural Networks, 2006. IJCNN '06. International Joint Conference on
16-21 July 2006 Page(s):676 - 683
AbstractPlus | Full Text: PDF(1064 KB) IEEE CNF
Rights and Permissions

9. **Biometric data acquisition using MATLAB GUIs**
Schultz, R.C.; Ives, R.W.;
Frontiers in Education, 2005. FIE '05. Proceedings 35th Annual Conference
19-22 Oct. 2005 Page(s):S1G - 1-5
Digital Object Identifier 10.1109/FIE.2005.1612189
AbstractPlus | Full Text: PDF(776 KB) IEEE CNF
Rights and Permissions

10. **A Novel approach to transformed biometrics - using ANN**
Gopi, E.S.; Vijayakumar, P.; Pandiyan, S.; kannan, P.; Revathy, P.;
Intelligent Sensing and Information Processing, 2005. ICISIP 2005. Third Inter Conference on
14-17 Dec. 2005 Page(s):157 - 163
AbstractPlus | Full Text: PDF(1896 KB) IEEE CNF
Rights and Permissions

11. **Accuracy performance analysis of multimodal biometrics**
Dahel, S.K.; Xiao, Q.;
Information Assurance Workshop, 2003. IEEE Systems, Man and Cybernetics
18-20 June 2003 Page(s):170 - 173
Digital Object Identifier 10.1109/SMCSIA.2003.1232417
AbstractPlus | Full Text: PDF(436 KB) IEEE CNF
Rights and Permissions

12. **Random Multispace Quantization as an Analytic Mechanism for BioHashi and Random Identity Inputs**
Teoh, A.B.J.; Goh, A.; Ngo, D.C.L.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
Volume 28, Issue 12, Dec. 2006 Page(s):1892 - 1901
Digital Object Identifier 10.1109/TPAMI.2006.250
AbstractPlus | Full Text: PDF(1590 KB) IEEE JNL
Rights and Permissions

13. **Implementing Ergonomic Principles in a Biometric System: A Look at the Biometric Sensor Interaction (HBSI)**
Eric P. Kukula; Stephen J. Elliott;
Carnahan Conferences Security Technology, Proceedings 2006 40th Annual I
Oct. 2006 Page(s):86 - 91
Digital Object Identifier 10.1109/CCST.2006.313434
AbstractPlus | Full Text: PDF(7766 KB) IEEE CNF
Rights and Permissions

14. **Semantic Framework for Biometric-Based Access Control Systems**
Yanushkevich, S.N.; Stoica, A.; Shmerko, V.P.;
Computational Intelligence for Homeland Security and Personal Safety, Proce
2006 IEEE International Conference on
Oct. 2006 Page(s):11 - 16
Digital Object Identifier 10.1109/CIHSPS.2006.313292
AbstractPlus | Full Text: PDF(182 KB) IEEE CNF
Rights and Permissions

15. **Biometric recognition: how do I know who you are?**
Jain, A.K.;
Signal Processing and Communications Applications Conference, 2004. Proce
IEEE 12th
28-30 April 2004 Page(s):3 - 5
Digital Object Identifier 10.1109/SIU.2004.1338241
AbstractPlus | Full Text: PDF(278 KB) IEEE CNF
Rights and Permissions

16. **Hiding biometric data**
Jain, A.K.; Uludag, U.;
Pattern Analysis and Machine Intelligence, IEEE Transactions on
Volume 25, Issue 11, Nov. 2003 Page(s):1494 - 1498
Digital Object Identifier 10.1109/TPAMI.2003.1240122
AbstractPlus | References | Full Text: PDF(560 KB) IEEE JNL
Rights and Permissions

17. **An introduction evaluating biometric systems**
Phillips, P.J.; Martin, A.; Wilson, C.L.; Przybocki, M.;
Computer
Volume 33, Issue 2, Feb. 2000 Page(s):56 - 63
Digital Object Identifier 10.1109/2.820040
AbstractPlus | References | Full Text: PDF(404 KB) IEEE JNL
Rights and Permissions

18. **A Multidisciplinary Approach to Biometrics**
Ives, R.W.; Yingzi Du; Etter, D.M.; Welch, T.B.;
Education, IEEE Transactions on
Volume 48, Issue 3, Aug. 2005 Page(s):462 - 471
Digital Object Identifier 10.1109/TE.2005.849750
AbstractPlus | Full Text: PDF(1944 KB) IEEE JNL
Rights and Permissions

19. **Work in progress - the biometric signal processing laboratory at the U.S.**
Ives, R.W.; Yingzi Du; Etter, D.M.; Welch, T.B.; Schultz, R.C.;
Frontiers in Education, 2005. FIE '05. Proceedings 35th Annual Conference
19-22 Oct. 2005 Page(s):S1G - 6-7
Digital Object Identifier 10.1109/FIE.2005.1612190
AbstractPlus | Full Text: PDF(152 KB) IEEE CNF
Rights and Permissions

20. **Soft and hard biometrics fusion for improved identity verification**
Zewail, R.; Elsafi, A.; Saeb, M.; Hamdy, N.;
Circuits and Systems, 2004. MWSCAS '04. The 2004 47th Midwest Symposiu
Volume 1, 25-28 July 2004 Page(s):I - 225-8 vol.1
Digital Object Identifier 10.1109/MWSCAS.2004.1353967
AbstractPlus | Full Text: PDF(455 KB) IEEE CNF
Rights and Permissions

21. **Biometric co-processor for an authentication system using iris biometric**
Liu-Jimenez, J.; Sanchez-Reillo, R.; Sanchez-Avila, C.;
Security Technology, 2004. 38th Annual 2004 International Carnahan Confere
11-14 Oct. 2004 Page(s):131 - 135
Digital Object Identifier 10.1109/CCST.2004.1405380
AbstractPlus | Full Text: PDF(630 KB) IEEE CNF
Rights and Permissions

22. **Secure identity authentication and logical access control for airport infor**
David, M.W.; Hussein, G.A.; Sakurai, K.;
Security Technology, 2003. Proceedings. IEEE 37th Annual 2003 Internationa
Conference on
14-16 Oct. 2003 Page(s):314 - 320
Digital Object Identifier 10.1109/CCST.2003.1297578
AbstractPlus | Full Text: PDF(1500 KB) IEEE CNF
Rights and Permissions

23. **A classification of biometric signatures**
Bromme, A.;
Multimedia and Expo, 2003. ICME '03. Proceedings. 2003 International Confe
Volume 3, 6-9 July 2003 Page(s):III - 17-20 vol.3
AbstractPlus | Full Text: PDF(363 KB) IEEE CNF
Rights and Permissions

24. **On enabling secure applications through off-line biometric identification**
Davida, G.I.; Frankel, Y.; Matt, B.J.;
Security and Privacy, 1998. Proceedings. 1998 IEEE Symposium on
3-6 May 1998 Page(s):148 - 157
Digital Object Identifier 10.1109/SECPRI.1998.674831
AbstractPlus | Full Text: PDF(120 KB) IEEE CNF
Rights and Permissions

25. **Towards a Measure of Biometric Information**
Andy Adler; Richard Youmaran; Sergey Loyka;
Electrical and Computer Engineering, Canadian Conference on
May 2006 Page(s):210 - 213
Digital Object Identifier 10.1109/CCECE.2006.277447
AbstractPlus | Full Text: PDF(203 KB) IEEE CNF
Rights and Permissions

View: **1-25** | 26-5

☐ Search Results

Results for "((fingerprint scanner)<in>metadata)"
Your search matched 7 of 446532 documents.
A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

e-mail

» Search Options

View Session History

New Search

Modify Search

((fingerprint scanner)<in>metadata) Search

☐ Check to search only within this results set

Display Format: ◉ Citation ○ Citation & Abstract

» Key

IEEE JNL	IEEE Journal or Magazine
IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

view selected items Select All Deselect All

1. **Time-series detection of perspiration as a liveness test in fingerprint devi**
S.T.V. Parthasaradhi; R. Derakhshani; L.A. Hornak; S.A.C. Schuckers;
Systems, Man and Cybernetics, Part C: Applications and Reviews, IEEE Trans
Volume 35, Issue 3, Aug. 2005 Page(s):335 - 343
Digital Object Identifier 10.1109/TSMCC.2005.848192
AbstractPlus | References | Full Text: PDF(2025 KB) IEEE JNL
Rights and Permissions

2. **Fake finger detection by skin distortion analysis**
Antonelli, A.; Cappelli, R.; Maio, D.; Maltoni, D.;
Information Forensics and Security, IEEE Transactions on
Volume 1, Issue 3, Sept. 2006 Page(s):360 - 373
Digital Object Identifier 10.1109/TIFS.2006.879289
AbstractPlus | Full Text: PDF(5336 KB) IEEE JNL
Rights and Permissions

3. **Techniques for securing multimedia content in consumer electronic appl biometric signatures**
Corcoran, P.; Cucos, A.;
Consumer Electronics, IEEE Transactions on
Volume 51, Issue 2, May 2005 Page(s):545 - 551
Digital Object Identifier 10.1109/TCE.2005.1468000
AbstractPlus | Full Text: PDF(428 KB) IEEE JNL
Rights and Permissions

4. **A door-opening system using a low-cost fingerprint scanner and a PC**
Faundez-Zanuy, M.;
Aerospace and Electronic Systems Magazine, IEEE
Volume 19, Issue 8, Aug. 2004 Page(s):23 - 26
Digital Object Identifier 10.1109/MAES.2004.1346894
AbstractPlus | References | Full Text: PDF(394 KB) IEEE JNL
Rights and Permissions

5. **Blood Test**
Jones, W.D.;
Spectrum, IEEE
Volume 43, Issue 11, Nov. 2006 Page(s):16 - 18
Digital Object Identifier 10.1109/SPEC.2006.247951

AbstractPlus | Full Text: PDF(882 KB) IEEE JNL
Rights and Permissions

6. **Parasitic authentication to protect your e-wallet**
Ebringer, T.; Thorne, P.; Zheng, Y.;
Computer
Volume 33, Issue 10, Oct. 2000 Page(s):54 - 60
Digital Object Identifier 10.1109/2.876293
AbstractPlus | References | Full Text: PDF(404 KB) IEEE JNL
Rights and Permissions

7. **Fingerprinting for security**
Adhami, R.; Meenen, P.;
Potentials, IEEE
Volume 20, Issue 3, Aug-Sep 2001 Page(s):33 - 38
Digital Object Identifier 10.1109/45.954536
AbstractPlus | Full Text: PDF(376 KB) IEEE JNL
Rights and Permissions

Google Scholar BETA

Web Images Video News Maps more »

"biometric scanner" Search

Advanced Scholar Search
Scholar Preferences
Scholar Help

Scholar **All articles** Recent articles Results **1** - **10** of about **290** for **"biometric scanner"**. (**0.07** seconds)

All Results
N Hoffman
J Lee
D Pare
P Lapsley
L Thalheim

Anti-fraud **biometric scanner** that accurately detects blood flow - all 2 versions »
PD Lapsley, JA Lee, DF Pare Jr, N Hoffman - US Patent 5,737,439, 1998 - Google Patents
Page 1. [54] ANTI-FRAUD **BIOMETRIC SCANNER** THAT ACCURATELY DETECTS BLOOD FLOW ... FIG.
11 617 614 Page 6. 5,737,439 I2 ANTI-FRAUD **BIOMETRIC SCANNER** THAT ...
Cited by 22 - Related Articles - Web Search

Memory card having a biometric template stored thereon and system for using same - all 2 versions »
MJ Stock, K Davis, JW Myers... - US Patent 6,011,858, 2000 - Google Patents
Page 1. United States Patent US006011858A [il] Patent Number: [45] Date of Patent: Stock et al. [54] MEMORY CARD HAVING A BIOMETRIC ...
Cited by 18 - Related Articles - Web Search

Body Check - all 3 versions »
L Thalheim, J Krissler, PM Ziegler - c't, 2002 - heise.de
... to a computer while the computer is running; thereby, giving potential assailants something of a break: It allows them to exchange the **biometric scanner** for a ...
Cited by 23 - Related Articles - Cached - Web Search

TOKENLESS BIOMETRIC ATM ACCESS SYSTEM - all 3 versions »
NED HOFFMAN, DF PARE JR, JA LEE - EP Patent 1,210,678, 2002 - freepatentsonline.com
... and if biometrics are required. a **biometric scanner** will also have to be attached to the reader as well. This costly price tag has ...
Cited by 12 - Related Articles - Cached - Web Search

Recent Advances in Fingerprint Verification - all 9 versions »
AK Jain, S Pankanti, S Prabhakar, A Ross - Invited Paper for 3rd Int. Conference on Audio- and Video- ..., 2001 - Springer
... 51. Lapsley et al., "Anti-fraud **biometric scanner** that accurately detects blood flow", US Patent 5,737,439, 1998. Fingerprint Enhancement 52. ...
Cited by 12 - Related Articles - Web Search - BL Direct

Biometrics authentication with smartcard - all 4 versions »
L Bechelli, S Bistarelli, A Vaccarelli - Istituto di Informamatica e Teleomatica (ITT), http:///www. ... - iit.cnr.it
... The system we are going to describe may use different technologies to match fingerprints acquired by a **biometric scanner** with stored templates. ...
Cited by 6 - Related Articles - View as HTML - Web Search

Method, apparatus and system for verification of infectious status of humans - all 3 versions »
JE Beecham - US Patent 5,897,989, 1999 - Google Patents
... [END L ^80 Fir; « fiP k. TMTrr ** LIN 1 Lr ' 92 r =| SN r ACCESS **BIOMETRIC SCANNER** r TRANSMIT SN & BIOMETRIC DATA TO DATABASE i> t94 ^ 96 ^98 ...
Cited by 6 - Related Articles - Web Search

A protocol for simulating match-on-card authentication through the use of a template-on-card ... - all 2 versions »
L Bechelli, S Bistarelli, S Frassi - Working draft - certification.tn
... biometric template is stored on a hardware security module, which also performs the matching with the live template, and hosts the **biometric scanner** to acquire ...
Cited by 1 - Related Articles - View as HTML - Web Search

"A piece of yourself": Ethical issues in biometric identification - all 5 versions »
A Alterman - Ethics and Information Technology, 2003 - Springer
Page 1. Ethics and Information Technology 5: 139–150, 2003. © 2003 Kluwer Academic Publishers. Printed in the Netherlands. "A ...
Cited by 12 - Related Articles - Web Search - Library Search - BL Direct

Detecting liveness in fingerprint scanners using wavelets: Results of the test dataset - all 2 versions »
S Schuckers, A Abhyankar - Proceedings of the Biometric Authentication Workshop, ECCV, 2004 - Springer
... device. Two raw images captured by a **biometric scanner** at zeroth second and fifth second are selected for use in the algorithm. ...
Cited by 2 - Related Articles - Web Search - BL Direct

Gooooooooogle ▶
Result Page: 1 2 3 4 5 6 7 8 9 10 **Next**

"biometric scanner" Search

Google Home - About Google - About Google Scholar

US-PAT-NO: 5869822

DOCUMENT-IDENTIFIER: US 5869822 A

TITLE: Automated fingerprint identification system

US Patent No. - PN (1):

5869822

Detailed Description Text - DETX (12):

The display panel 30, as shown in FIG. 1, incorporates a start button 32 that when pressed, allows the system 10 to commence operation, as shown in FIGS. 1 and 2, a PASS **LED** 34, a FAIL **LED** 36 that when lit indicates that the credit card is valid or invalid respectfully and a TRY AGAIN **LED** 38 that when lit indicates that the system 10 has obtained marginal results and therefore the card presenter is requested to try again.

US005869822A

United States Patent [19]

Meadows, II et al.

[11] Patent Number: 5,869,822

[45] Date of Patent: Feb. 9, 1999

[54] **AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM**

[76] Inventors: **Dexter L. Meadows, II**, 376 E. Alameda, Altadena, Calif. 91001; **Allen J. Pouratian**, 717 N. Bedford Dr., Beverly Hills, Calif. 90210

[21] Appl. No.: **727,846**

[22] Filed: **Oct. 4, 1996**

[51] **Int. Cl.**[6] **G06K 05/00**

[52] **U.S. Cl.** **235/380**

[58] **Field of Search** 235/380, 382, 235/382.5; 380/25, 49, 54, 59

[56] **References Cited**

U.S. PATENT DOCUMENTS

5,598,474 1/1997 Johnson 235/380

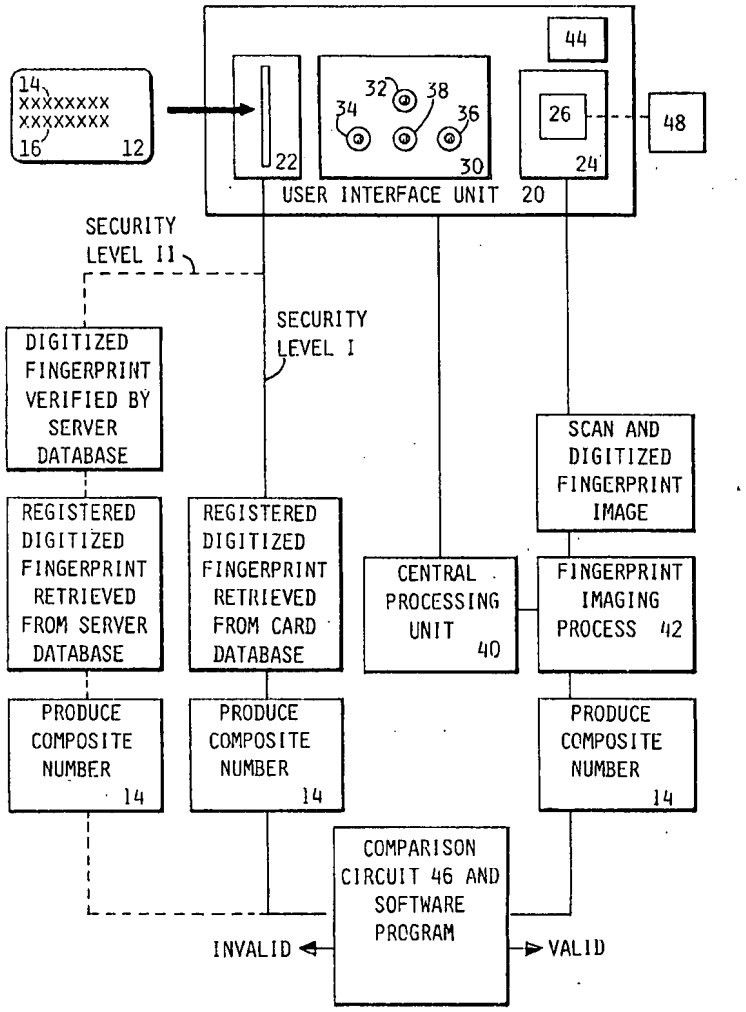
Primary Examiner—Le Thien Minh

Attorney, Agent, or Firm—Albert O. Cota

[57] **ABSTRACT**

An atomated fingerprint identification system (**10**), which utilizes an encoded identification card, such as a credit card (**12**). When a person applies for a credit card (**12**) they must register a finger of their choice with the card issuance company. At the company, the finger is scanned and a composite number (**14**) is produced that consists of several fingerprint identifying parameters. The composite number (**14**), corresponding to the fingerprint is encoded onto the card (**12**) and is also stored in a card database (**50**) and/or a server database (**52**). When a person wants to use the card (**12**), the card (**12**) is inserted into a card reader (**22**) and the person's finger is scanned by a fingerprint scanner (**24**) which produces a composite number (**14**) that is compared with the composite number (**14**) in the card or server database (**50, 52**). If the two composite numbers (**14**) are similar, use of the card is allowed. Conversely, if they are not similar, use of the card is disallowed.

6 Claims, 11 Drawing Sheets



Terms used **led indicator biometric scanner** Found **3** of **201,062**

Sort results by relevance

Display results expanded form

Save results to a Binder

Search Tips

Open results in a new window

Try an Advanced Search

Try this search in The ACM Guide

Results 1 - 3 of 3

Relevance scale

1 Information leakage from optical emanations

Joe Loughry, David A. Umphress

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(382.77 KB) Additional Information: full citation, abstract, references, index terms

A previously unknown form of compromising emanations has been discovered. LED status indicators on data communication equipment, under certain conditions, are shown to carry a modulated optical signal that is significantly correlated with information being processed by the device. Physical access is not required; the attacker gains access to all data going through the device, including plaintext in the case of data encryption systems. Experiments show that it is possible to intercept data under ...

Keywords: COMINT, COMSEC, EMSEC, SIGINT, TEMPEST, communication, compromising emanations, covert channel, encryption, fiber optics, information displays, light emitting diode (LED)

2 Security, privacy and anonymity: Privacy preserving multi-factor authentication with biometrics

Abhilasha Bhargav-Spantzel, Anna Squicciarini, Elisa Bertino

November 2006 **Proceedings of the second ACM workshop on Digital identity management DIM '06**

Publisher: ACM Press

Full text available: pdf(228.45 KB) Additional Information: full citation, abstract, references, index terms

An emerging approach to the problem of reducing the identity theft is represented by the adoption of biometric authentication systems. Such systems however present however several challenges, related to privacy, reliability, security of the biometric data. Inter-operability is also required among the devices used for the authentication. Moreover, very often biometric authentication in itself is not sufficient as a conclusive proof of identity and has to be complemented with multiple other proofs ...

Keywords: authentication, biometrics, identity theft prevention, privacy

3 The SNAP-1 parallel AI prototype

R. F. DeMara, D. I. Moldovan

April 1991 **ACM SIGARCH Computer Architecture News , Proceedings of the 18th annual international symposium on Computer architecture ISCA '91**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: full citation, references, citings, index terms

Results 1 - 3 of 3

Terms used **biometric scanner** Found **5** of **201,062**

Sort results by relevance

Display results expanded form

Save results to a Binder

Search Tips

Open results in a new window

Try an Advanced Search

Try this search in The ACM Guide

Results 1 - 5 of 5

Relevance scale

1 Security, privacy and anonymity: Privacy preserving multi-factor authentication with biometrics

Abhilasha Bhargav-Spantzel, Anna Squicciarini, Elisa Bertino

November 2006 **Proceedings of the second ACM workshop on Digital identity management DIM '06**

Publisher: ACM Press

Full text available: pdf(228.45 KB) Additional Information: full citation, abstract, references, index terms

An emerging approach to the problem of reducing the identity theft is represented by the adoption of biometric authentication systems. Such systems however present however several challenges, related to privacy, reliability, security of the biometric data. Inter-operability is also required among the devices used for the authentication. Moreover, very often biometric authentication in itself is not sufficient as a conclusive proof of identity and has to be complemented with multiple other proofs ...

Keywords: authentication, biometrics, identity theft prevention, privacy

2 Social Issues: Hopeful design: making the world a better place

Matt Jones

January 2002 **ACM SIGCHI Bulletin - a supplement to *interactions***, Volume 2002

Publisher: ACM Press

Full text available: pdf(267.75 KB) Additional Information: full citation

3 Risks to the public: Risks to the public in computers and related systems

Peter G. Neumann

March 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(221.43 KB) Additional Information: full citation, citings

4 Biometrics: possible safe haven or lost cause?

Patrick Kosciuk

March 2005 **ACM SIGCAS Computers and Society**, Volume 35 Issue 1

Publisher: ACM Press
Full text available: html(17.14 KB) Additional Information: full citation, references, index terms

5 Trends for 2005

Aaron Weiss
December 2004 **netWorker**, Volume 8 Issue 4
Publisher: ACM Press
Full text available: pdf(80.15 KB) html(29.15 KB) Additional Information: full citation, abstract, index terms

A fractured landscape of technological innovations reveals that now, more than ever, we're all connected

Results 1 - 5 of 5

Terms used **biometric scanner portable led** Found **11,432** of **201,062**

Sort results by relevance
Display results expanded form
Save results to a Binder
Search Tips
Open results in a new window
Try an Advanced Search
Try this search in The ACM Guide

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next
Best 200 shown Relevance scale

1 blue-c: a spatially immersive display and 3D video portal for telepresence

Markus Gross, Stephan Würmlin, Martin Naef, Edouard Lamboray, Christian Spagno, Andreas Kunz, Esther Koller-Meier, Tomas Svoboda, Luc Van Gool, Silke Lang, Kai Strehlke, Andrew Vande Moere, Oliver Staadt

July 2003 **ACM Transactions on Graphics (TOG) , ACM SIGGRAPH 2003 Papers SIGGRAPH '03**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(31.68 MB) mov(28:33 MIN) Additional Information: full citation, abstract, references, citings

We present *blue-c*, a new immersive projection and 3D video acquisition environment for virtual design and collaboration. It combines simultaneous acquisition of multiple live video streams with advanced 3D projection technology in a CAVE™-like environment, creating the impression of total immersion. The blue-c portal currently consists of three rectangular projection screens that are built from glass panels containing liquid crystal layers. These screens can be switched from a whiti ...

Keywords: 3D Video, graphics hardware, real-time graphics, spatially immersive displays, virtual environments

2 Design of C++ classes and functions to model non-game interfacing applications of the inputs of a joy port (tutorial presentation)

Lee R. Clendenning

October 2000 **Journal of Computing Sciences in Colleges , Proceedings of the second annual CCSC on Computing in Small Colleges Northwestern conference , Proceedings of the fourteenth annual consortium on Small Colleges Southeastern conference CCSC '00**, Volume 16 Issue 2

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(28.28 KB) Additional Information: full citation, abstract, references, index terms

A summary and demonstration of the synthesis of C++ classes and functions which would model non-game applications of a traditional joy port of the IBM compatible personal computer. A classic security alarm system with multiple zones circuits hardwired to the port will be used as an application example. The generic physical/electrical provisions and characteristics of the port for digital and analog inputs are reviewed with schematic diagrams. Applicable functions from the C++ libraries, conio ...

3

Visualization of a closed three-dimensional surface using portal-based rendering

Michael Bui, Nick Lowe, Masahiro Takatsuka

January 2006 **Proceedings of the 2006 Asia-Pacific Symposium on Information Visualisation - Volume 60 APVis '06**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(398.20 KB) Additional Information: full citation, abstract, references, index terms

The complexity and size of data is rapidly increasing in modern science, business and engineering. This has resulted in increasing demands for more sophisticated data analysis methods. Multidimensional scaling has been used to visualize large high-dimensional datasets in the form of a map. Such maps are very intuitive for us, as we are familiar with reading geographical maps. However, they typically result in a flat space (world), which presents undefined discontinuous edges at the end of the wo ...

Keywords: closed 3D surface, geodesic Dome, portal-based rendering, self-Organizing Map., visualization

4 Industrial experience with building a web portal product line using a lightweight, reactive approach

Ulf Pettersson, Stan Jarzabek

September 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 10th European software engineering conference held jointly with 13th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-13**, Volume 30 Issue 5

Publisher: ACM Press

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

Imprecise, frequently changing requirements and short time-to-market create challenges for application of conventional software methods in Web Portal engineering. To address these challenges, ST Electronics (Info-Software Systems) Pte. Ltd. applied a lightweight, reactive approach to support a Web Portal product line. Unique characteristics of the approach were fast, low-cost migration from a single conventional Web Portal towards a reusable "generic Web Portal" solution, effective handling of l ...

Keywords: maintenance, program synthesis, reuse, software product lines, static meta-programming, web engineering

5 Session 35: power-constrained design for multimedia: Minimization for LED-backlit TFT-LCDs

Wei-Chung Cheng, Chain-Fu Chao

July 2006 **Proceedings of the 43rd annual conference on Design automation DAC '06**

Publisher: ACM Press

Full text available: pdf(772.28 KB) Additional Information: full citation, abstract, references, index terms

This paper presents an algorithm for minimizing power consumption of LED backlights in transmissive TFT-LCD monitors. The proposed algorithm reduces power consumption by scaling the luminous intensity of the red, green, and blue LED backlights independently according to the image histograms of each color channel. The algorithm consists of two phases. The first phase, chromaticity scaling, finds the optimal ratios of red, green, and blue backlights subject to a perceived color difference constrai ...

Keywords: CIELAB color difference, LED backlight, TFT-LCD power minimization, chromaticity-luminance scaling

6 How to port Linux when the hardware turns soft
David Lynch
January 2007 **Linux Journal**, Volume 2007 Issue 153
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(287.14 KB) Additional Information: full citation, abstract, index terms

Soul of the Pico machines

7 Power management and application specific architectures: Temporal vision-guided energy minimization for portable displays
Wei-Chung Cheng, Chih-Fu Hsu, Chain-Fu Chao
October 2006 **Proceedings of the 2006 international symposium on Low power electronics and design ISLPED '06**
Publisher: ACM Press
Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel backlight driving technique for liquid crystal displays. By scaling the intensity, frequency, and duty cycle of the backlight, this technique not only increases the perceived brightness but also prolongs the service time of rechargeable batteries. The increased brightness comes from a perceptual effect of temporal vision - a brief flash appears brighter than a steady light of the same intensity, called Brücke brightness enhancement effect. The prolonged service t ...

Keywords: TFT-LCD, backlight management, power minimization, temporal vision

8 Experience: Development of an electronic commerce portal system using a specific software development process
Volker Gruhn, Martin Mocker, Lothar Schöpe
February 2002 **Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications CRPIT '02**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(979.88 KB) Additional Information: full citation, abstract, references, index terms

The development of electronic commerce (EC) systems is subject to different conditions than that of conventional software systems. Consequently, software development processes used for conventional systems to date need to be adapted to these new conditions. This includes the introduction of new activities to the development process and the removal of others. In addition, the roles involved in the development process, their tasks, qualifications and the software tools used by them, are different ...

Keywords: application integration, component based development, distributed architecture design, electronic commerce, software development process

9 Classics in software engineering
January 1979 Divisible Book
Publisher: Yourdon Press
Full text available: pdf(22.45 MB) Additional Information: full citation, cited by, index terms

10 European air traffic flow management: porting a large application to GNU/linux
Gaetan Allaert, Dirk Craeynest, Philippe Waroquiers
December 2003 **ACM SIGAda Ada Letters , Proceedings of the 2003 annual ACM**

SIGAda international conference on Ada: the engineering of correct and reliable software for real-time & distributed systems using ada and related technologies SigAda '03, Volume XXIV Issue 1

Publisher: ACM Press

Full text available: pdf(163.61 KB) Additional Information: full citation, abstract, references, index terms

Computer hardware evolves very quickly. To benefit from cheaper and more powerful systems, big applications have to be ported to new environments. The Ada language has been designed for portability, making such migrations easier. However, today's applications often complement their main implementation language by various extra technologies: shell scripts, direct usage of OS primitives, different programming languages to access some libraries e.g. for graphical user interfaces, etc. These technol ...

Keywords: Ada, C, C++, CFMU, COTS, ETFMS, GNAT, GNU, HP-PA RISC, HP-UX, Korn shell, POSIX, air traffic management, eurocontrol, intel 80x86, linux, performance, portability

11 Participatory design of a portable torque-feedback device

Michael Good

June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '92**

Publisher: ACM Press

Full text available: pdf(859.53 KB) Additional Information: full citation, abstract, references, citings, index terms

Customer-driven design processes such as participatory design can be used to develop new presence, or virtual reality, technology. Chemists worked together with computer company engineers to develop scenarios for how present technology could be used to support future molecular modeling work in drug design. These scenarios led to the development of a portable torque-feedback device which can be used with either workstation or virtual reality technology. This paper discusses both the experien ...

Keywords: chemistry, force feedback, molecular modeling, participatory design, presence, virtual reality

12 Driving me nuts

Greg Kroah-Hartman

April 2004 **Linux Journal**, Volume 2004 Issue 120

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(20.10 KB) Additional Information: full citation, abstract

Writing a Simple USB Driver

13 Applications session 5: multimedia applications potpourri: Electronic clipping system with invisible barcodes

Koichi Kamijo, Noboru Kamijo, Masaharu Sakamoto

October 2006 **Proceedings of the 14th annual ACM international conference on Multimedia MULTIMEDIA '06**

Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, index terms

The Internet, digital television, and similar technologies have accelerated the speed of digitalization. Nevertheless, paper media forms, such as newspapers and magazines, still have large market shares, and the authors believe that these two worlds, digital and

analog, will coexist even in the future, with their own market areas. However, the demands to connect between these two worlds are increasing, and barcodes and watermarking are examples of technologies used to connect them. However, a ba ...

Keywords: 2D bar code, QR code, cell phone, invisible ink, ubiquitous, uv LED

14 A history of the SNOBOL programming languages

Ralph E. Griswold
January 1978 **ACM SIGPLAN Notices , The first ACM SIGPLAN conference on History of programming languages HOPL-I**, Volume 13 Issue 8
Publisher: ACM Press
Full text available: pdf(3.56 MB) Additional Information: full citation, abstract, references, index terms

Development of the SNOBOL language began in 1962. It was followed by SNOBOL2, SNOBOL3, and SNOBOL4. Except for SNOBOL2 and SNOBOL3 (which were closely related), the others differ substantially and hence are more properly considered separate languages than versions of one language. In this paper historical emphasis is placed on the original language, SNOBOL, although important aspects of the subsequent languages are covered.

15 HTTP Cookies: Standards, privacy, and politics

David M. Kristol
November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: pdf(390.38 KB) Additional Information: full citation, abstract, references, citings, index terms

How did we get from a world where cookies were something you ate and where "nontechies" were unaware of "Netscape cookies" to a world where cookies are a hot-button privacy issue for many computer users? This article describes how HTTP "cookies" work and how Netscape's original specification evolved into an IETF Proposed Standard. I also offer a personal perspective on how what began as a straightforward technical specification turned into a political flashpoint when it tried to address nontechn ...

Keywords: Cookies, HTTP, World Wide Web, privacy, state management

16 An energy-conscious algorithm for memory port allocation

Preeti Ranjan Panda, Lakshmikantam Chitturi
November 2002 **Proceedings of the 2002 IEEE/ACM international conference on Computer-aided design ICCAD '02**
Publisher: ACM Press
Full text available: pdf(111.21 KB) Additional Information: full citation, abstract, references, citings, index terms

Multiport memories are extensively used in modern system designs because of the performance advantages they offer. The increased memory access throughput could lead to significantly faster schedules in behavioral synthesis. However, they also have an associated area and energy penalty. We describe a technique for mapping data accesses to multiport memories during behavioral synthesis that results in significantly better energy characteristics than an unoptimized multiport design. The technique c ...

17 Reality portals

Karl-Petter Åkesson, Kristian Simsarian
December 1999 **Proceedings of the ACM symposium on Virtual reality software and technology VRST '99**

Publisher: ACM Press
Full text available: pdf(1.58 MB) Additional Information: full citation, abstract, references, index terms

Through interactive augmented virtuality we provide the ability to interactively explore a remote space inside a virtual environment. This paper presents a tool and technique that can be used to create such virtual worlds that are augmented by video textures taken of real world objects. The system constructs and updates, in near real-time, a representation of the user-defined salient and relevant features of the real world. This technique has the advantage of constructing a virtual world th ...

Keywords: augmented virtuality, collborative virtual environments, environment visualization, teleoperation, video textures

18 Optimal privacy and authentication on a portable communications system

Ulf Carlsen
July 1994 **ACM SIGOPS Operating Systems Review**, Volume 28 Issue 3
Publisher: ACM Press
Full text available: pdf(699.70 KB) Additional Information: full citation, abstract, citings, index terms

Beller, Chang and Yacobi [2] have recently proposed a set of secret key and public key protocols to meet authentication and privacy requirements for conversation set-up protocols for the initiating party of portable communication systems. This paper improves upon the protocols to obtain a higher assurance of authentication and key distribution. Conversation set-up protocols for the responding party are discussed, a public key protocol providing end-to-end authentication and privacy is described, ...

19 Modeling methodology a: Foundations of multi-paradigm modeling and simulation: a port ontology for automated model composition

Vei-Chung Liang, Christiaan J. J. Paredis
December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation WSC '03**
Publisher: Winter Simulation Conference
Full text available: pdf(489.77 KB) Additional Information: full citation, abstract, references, citings

We study the cooncept of ports and we define an ontology for representing them. Ports define the locations of interaction at the boundaries of components or sub-systems; they can be used across different disciplines for both product moodeling and simulation. They are therefore a coonvenient abstraction that allows simulation modelers too moodularize and encapsulate their system descriptions such that configurations oof port-based prooduct models can be used to generate multiple simulation moo ...

20 Virtual reality II: Portals: increasing visibility in virtual worlds

Ioannis Kotziampasis, Nathan Sidwell, Alan Chalmers
April 2003 **Proceedings of the 19th spring conference on Computer graphics SCCG '03**
Publisher: ACM Press
Full text available: pdf(146.66 KB) Additional Information: full citation, abstract, references, citings

Distributed virtual environments offer an efficient way of creating complex 3D worlds. However, navigation within these virtual environments can be significantly hampered by the lack of visibility between parts of the world which are on different machines. This paper describes the use of portals to connect the distributed virtual environments in a way that the interconnected virtual environment will be visible from different machines. A psychophysical experiment is presented which investigates u ...

Keywords: VRML, distributed virtual environments, portals, user navigation

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next

Terms used **fingerprint scanner led** Found **1,009** of **201,062**

Sort results by relevance
Display results expanded form
Save results to a Binder
Search Tips
Open results in a new window
Try an Advanced Search
Try this search in The ACM Guide

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next
Best 200 shown Relevance scale

1 A user interface using fingerprint recognition: holding commands and data objects on fingers
Atsushi Sugiura, Yoshiyuki Koseki
November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology UIST '98**
Publisher: ACM Press
Full text available: pdf(226.02 KB) Additional Information: full citation, references, citings, index terms

Keywords: fingerprint recognition, input devices, mulimodal user interfaces, multi-computer user interfaces

2 Applications I: Secure fingerprint-based authentication for Lotus Notes®
Nalini K. Ratha, Jonathan H. Connell, Ruud M. Bolle
October 2001 **Proceedings of the 2001 workshop on Multimedia and security: new challenges MM&Sec '01**
Publisher: ACM Press
Full text available: pdf(731.41 KB) Additional Information: full citation, abstract, references

Fingerprints have been used to recognize people for several decades. The advent of low cost inkless fingerprint scanners coupled with extra compute power available in client workstations, biometrics in general and fingerprints in particular are being considered for many secure authentication applications. Lotus Notes is a groupware supporting email access and other activities such as calendar management included in it. In this paper, we describe the architecture of a system that integrates bo ...

3 Late breaking result papers: FingerSense: augmenting expressiveness to physical pushing button by fingertip identification
Jingtao Wang, John Canny
April 2004 **CHI '04 extended abstracts on Human factors in computing systems CHI '04**
Publisher: ACM Press
Full text available: pdf(284.80 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a novel method, *FingerSense* to enhance the expressiveness of physical buttons. In a *FingerSense* enabled input device, a pressing action is differentiated according to the finger involved. We modeled the human performance of *FingerSense*

interfaces and derived related parameters from a preliminary usability study. Overall findings indicate that *FingerSense* is faster compared with traditional keypads when the finger switching action could be par ...

Keywords: fingerprint recognition, input device, mobile computing, performance modeling, text input

4 Design expo: Use of video in user interfaces that require non-linguistic cues

Sam Racine, Rachel Nilsson
April 2005 **CHI '05 extended abstracts on Human factors in computing systems CHI '05**
Publisher: ACM Press
Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, index terms

This case study describes the creation of a user interface for a self-service kiosk that collects biographic and biometric data from non-English-speaking individuals who are unfamiliar with American/Western culture, with little formal education, and little-to-no experience with computers. The users were also completely unfamiliar with the task and in a very stressful environment. Therefore, unlike most commercial software interfaces that "tell" users how to complete a task by relying on entry fi ...

Keywords: usability, user interface design, video

5 Work-in-progress: Does habituation affect fingerprint quality?

Mary Theofanos, Ross Micheals, Jean Scholtz, Emile Morse, Peter May
April 2006 **CHI '06 extended abstracts on Human factors in computing systems CHI '06**
Publisher: ACM Press
Full text available: pdf(379.46 KB) Additional Information: full citation, abstract, references, index terms

Interest in the environmental factors that affect biometric image quality is increasing as biometric technologies are currently being implemented in various business applications. This study aims to determine, through repeated trials, the effects of various external factors on the image quality and usability of prints collected by an electronic reader. These factors include age and gender but also the absence or presence of immediate feedback. A key factor in biometric systems that will be used ...

Keywords: biometrics, feedback, fingerprint image quality, habituation

6 Assurance in life/nation critical endeavors: Biometrics or ... biohazards?

John Michael Williams
September 2002 **Proceedings of the 2002 workshop on New security paradigms NSPW '02**
Publisher: ACM Press
Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, index terms, review

IPSE DIXIT Biometrics as an array of deployable technologies presumes an elaborate infrastructure, including underlying science that justifies its claims of detection, classification, identification and authentication of individual human identities; particularly of those who are runaways, illegal immigrants, fugitives, criminals, terrorists, and so on.This will now too often be literally a matter of life and death, both for the public and the individuals identified.The "New Security Paradigm" em ...

7 Reviewed articles: The devil and packet trace anonymization

Ruoming Pang, Mark Allman, Vern Paxson, Jason Lee
January 2006 **ACM SIGCOMM Computer Communication Review**, Volume 36 Issue 1
Publisher: ACM Press
Full text available: pdf(119.06 KB) Additional Information: full citation, abstract, references, index terms

Releasing network measurement data---including packet traces---to the research community is a virtuous activity that promotes solid research. However, in practice, releasing anonymized packet traces for public use entails many more vexing considerations than just the usual notion of how to scramble IP addresses to preserve privacy. Publishing traces requires carefully balancing the security needs of the organization providing the trace with the research usefulness of the anonymized trace. In thi ...

8 National id card: the next generation: The US/Mexico border crossing card (BCC): a case study in biometric, machine-readable id

Andrew Schulman
April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy CFP '02**
Publisher: ACM Press
Full text available: htm(187.31 KB) Additional Information: full citation, index terms

9 Security, privacy and anonymity: Privacy preserving multi-factor authentication with biometrics

Abhilasha Bhargav-Spantzel, Anna Squicciarini, Elisa Bertino
November 2006 **Proceedings of the second ACM workshop on Digital identity management DIM '06**
Publisher: ACM Press
Full text available: pdf(228.45 KB) Additional Information: full citation, abstract, references, index terms

An emerging approach to the problem of reducing the identity theft is represented by the adoption of biometric authentication systems. Such systems however present however several challenges, related to privacy, reliability, security of the biometric data. Inter-operability is also required among the devices used for the authentication. Moreover, very often biometric authentication in itself is not sufficient as a conclusive proof of identity and has to be complemented with multiple other proofs ...

Keywords: authentication, biometrics, identity theft prevention, privacy

10 An experimental laboratory for pattern recognition and signal processing

N. M. Herbst, P. M. Will
April 1972 **Communications of the ACM**, Volume 15 Issue 4
Publisher: ACM Press
Full text available: pdf(2.02 MB) Additional Information: full citation, abstract, references

An interactive computer-controlled scanning and display system has been in operation at the IBM Thomas J. Watson Research Center for three years. The system includes two flying-spot scanners and a TV camera specially interfaced to a process control digital computer, dot-mode and vector displays, analog input and output facilities, and a variety of other experimental equipment. The system design and programming support are described and typical applications in scanner control, optical charac ...

Keywords: image processing, interactive terminal, pattern recognition, pseudorandom displays, scanners

11 Risks to the public: Risks to the public

Peter G. Neumann
May 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 3
Publisher: ACM Press
Full text available: pdf(177.87 KB) Additional Information: full citation, abstract, index terms

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

12 Polygonal approximations that minimize the number of inflections

John D. Hobby
January 1993 **Proceedings of the fourth annual ACM-SIAM Symposium on Discrete algorithms SODA '93**
Publisher: Society for Industrial and Applied Mathematics
Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

13 Security III: Experiential learning and security lab design

Ed Crowley
October 2004 **Proceedings of the 5th conference on Information technology education CITC5 '04**
Publisher: ACM Press
Full text available: pdf(169.30 KB) Additional Information: full citation, abstract, references, citings, index terms

Awareness of the need for Information Systems Security continues to expand. This expansion has created a need for security focused lab modules. By design, these lab modules should optimize student learning experiences. Incorporating Kolb's experiential learning model helps assure an optimum learning experience. This paper, presents procedures and methodologies utilized in developing security lab modules. These modules illustrate the application of Kolb's experiential learning model.

Keywords: TCP/IP, internet security, lab design, network security

14 Risks to the public: Risks to the public in computers and related systems

Peter G. Neumann
September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5
Publisher: ACM Press
Full text available: pdf(105.37 KB) Additional Information: full citation, abstract

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances that affect computer systems. To economize on space, we tersify most items and include pointers to items in the online Risks Forum: (R i j) deno ...

15 Collaboration at work: Exploring patterns of social commonality among file directories at work

John C. Tang, Clemens Drews, Mark Smith, Fei Wu, Alison Sue, Tessa Lau

April 2007 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '07**

Publisher: ACM Press

Full text available: pdf(495.98 KB) Additional Information: full citation, abstract, references, index terms

We studied files stored by members of a work organization for patterns of social commonality. Discovering identical or similar documents, applications, developer libraries, or other files may suggest shared interests or experience among users. Examining actual file data revealed a number of individual and aggregate practices around file storage. For example, pairs of users typically have many (over 13,000) files in common. A prototype called LiveWire exploits this commonality to make file bac ...

Keywords: CSCW, enterprise work setting, file management, social networking, social recommendation, usage logs

16 Point-based computer graphics

Marc Alexa, Markus Gross, Mark Pauly, Hanspeter Pfister, Marc Stamminger, Matthias Zwicker

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(8.94 MB) Additional Information: full citation, abstract, citings

This course introduces points as a powerful and versatile graphics primitive. Speakers present their latest concepts for the acquisition, representation, modeling, processing, and rendering of point sampled geometry along with applications and research directions. We describe algorithms and discuss current problems and limitations, covering important aspects of point based graphics.

17 Survey of network weapons part 1: weapons for profiling

Linda S. Grubb, Luis Cuéllar

April 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 4

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(34.82 KB) Additional Information: full citation, abstract, references

The rise of the Internet has been a boon for Computer Science and the world economy. It has redefined the way technology and information is viewed. But it also has given rise to new types of crimes as well as to new types of criminals. These criminals organize themselves along familiar structures and hierarchies. These organizations share knowledge and develop tools and new weapons, which they use to breach the most sophisticated security mechanisms. This has made Information Security a must for ...

18 PG13-designing games: Designing opportunities to spark and nurture scientific inquiry in middle school girls

Kristin Hughes

November 2005 **Proceedings of the 2005 conference on Designing for User eXperience DUX '05**

Publisher: AIGA: American Institute of Graphic Arts

Full text available: pdf(7.35 MB) Additional Information: full citation, abstract, references

Our project, Click! Urban Adventure, was designed to immerse middle school girls in an interactive, mixed-reality game that provides them with the tools they need to learn discipline-specific science, technology, engineering, and mathematics (STEM) skills. The 11 to 14 year old girls who participated in Click! used the city as their game board and

STEM components as their tools. As part of the game, the girls take on the role of Click! Special Agents as they think, talk and reason their way towa ...

Keywords: augmented reality, children, games, interaction design, interdisciplinary design, live performance, user-centered design, visual design

19 Bioinformatics—an introduction for computer scientists

Jacques Cohen
June 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2
Publisher: ACM Press

Full text available: pdf(261.56 KB) Additional Information: full citation, abstract, references, citings, index terms

The article aims to introduce computer scientists to the new field of bioinformatics. This area has arisen from the needs of biologists to utilize and help interpret the vast amounts of data that are constantly being gathered in genomic research---and its more recent counterparts, proteomics and functional genomics. The ultimate goal of bioinformatics is to develop in silico models that will complement in vitro and in vivo biological experiments. The article provides a bird's eye view of the ...

Keywords: DNA, Molecular cell biology, RNA and protein structure, alignments, cell simulation and modeling, computer, dynamic programming, hidden-Markov-models, microarray, parsing biological sequences, phylogenetic trees

20 Columns: Risks to the public in computers and related systems

Peter G. Neumann
March 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 2
Publisher: ACM Press

Full text available: pdf(1.54 MB) Additional Information: full citation

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next